

# LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176

JEFFERSON CITY, MISSOURI 65102

573-751-4041

## Permit To Engage in Surface Mining

LAND RECLAMATION COMMISSION

### ISSUES TO NELSON BROTHERS QUARRIES

Pursuant to "The Land Reclamation Act," RSMo. 2001, and on conformity with the statements

In the application, a permit is hereby granted to engage in surface mining of  
limestone in the state of Missouri. The extent of the


Proposed mining operation(s) will be on 27 acres, more or less.

The locations of the operation(s) under this permit is/are as follows: **Renewal**

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Jasper	18	30N	30W	12	0	12	Jasper Quarry	0676
Jasper	34	28N	32W	15	0	15	Joplin Quarry	0675

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

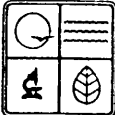
IN WITNESS WHEREOF I have hereunto set my hand this 13th day of August 2004

  
DIRECTOR OF STAFF  
Land Reclamation Commission

Permit No. 0713  
Effective Date 08/13/2004  
Expiration Date 04/11/2005

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JUL 19 2004



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES

MISSOURI LAND  
RECLAMATION COMMISSION

P.O. BOX 176  
JEFFERSON CITY, MO 65102-0176

NAME OF CORPORATION, COMPANY, PARTNERSHIP OR INDIVIDUAL <b>Nelson Bros. Quarries</b>		DATE <b>7-14-04</b>	
ADDRESS <b>POB 334</b>	CITY <b>JASPER</b>	STATE <b>MO</b>	ZIP CODE <b>64755</b>
CONTACT PERSON <b>Paul M. (Dusty) Nelson</b>		TELEPHONE NUMBER <b>417-394-9177</b>	

## FEES: COMPLETE SECTION I OR SECTION II

## SECTION I. Fees: Open pit operators and those mining more than 5,000 tons of sand and/or gravel:

## 1. To compute the site fee complete the information below:

SITE NAME OR NUMBER (add a separate sheet for additional sites)	Mark each month that the site will be operated during the permit year	For sites operated less than six months per permit year pay \$150 For sites operated six months or more per permit year pay \$300
1. <b>Jasper Quarry</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <b>300.00</b>
2. <b>Joplin Quarry</b>	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$ <b>150.00</b>
3.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
4.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
5.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
6.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
7.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
8.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
9.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$
10.	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec	\$

TOTAL SITE FEE **\$ 450.00**2. Acreage Fee \$5 X **27** number of acres bonded **\$ 135.00**3. Annual Permit Fee **\$ 500**4. Total Fee (Add totals from 1, 2 and 3) **\$ 1,085.00**NOTE: If Total Fee exceeds \$2,500.00 then pay only **\$ 2,500**

## SECTION II. FEES: Sand or gravel operators mining less than 5,000 tons per year:

1. Annual Permit Fee **\$ 300**

SIGNATURE OF APPLICANT <b>Paul M. Nelson</b>		TITLE <b>PRESIDENT</b>	DATE <b>7-14-04</b>	
Appeared before me this <b>15</b> day of <b>July</b> , 20 <b>04</b> . <b>Paul M Nelson</b> to me personally known, who executed the above as their free acts and deeds.				
NOTARY PUBLIC EMBOSSEER SEAL	STATE OF <b>MO</b>		COUNTY (OR CITY OF ST. LOUIS) <b>Jasper</b>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <b>15</b> DAY OF <b>July</b> YEAR <b>2004</b>		USE RUBBER STAMP IN CLEAR AREA BELOW.  <b>LISA GREGG</b> <b>Jasper County</b> <b>Notary Public</b> <b>State of Missouri</b> <b>My Commission Expires July 9, 2005</b>	
	NOTARY PUBLIC SIGNATURE <b>Lisa Gregg</b>	MY COMMISSION EXPIRES <b>July 9 2005</b>		
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <b>Lisa Gregg</b>			
FOR DEPARTMENT USE ONLY: APPROVED BY <b>[Signature]</b>		DATE APPROVED <b>8/6/04</b>	PERMIT NUMBER <b>0713</b>	EXPIRATION DATE <b>4/11/2005</b>



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER <b>JASPER QUARRY</b>		PERMIT NUMBER <del>0312</del> <b>0713</b>	
COMPANY NAME <b>Nelson Stone Co, Inc DBA Nelson Bros. Quarries</b>			
COUNTY <b>Jasper</b>	1/4 SECTION		SECTION <b>18</b>
TOWNSHIP <b>30N</b>	RANGE <b>30W</b>		ACRES <b>50</b>
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			
MINERAL COMMODITY <b>Limestone</b>		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)	

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) <b>Wayne + Pauline Evans Trust</b>		
ADDRESS <b>203 S. PARK ST.</b>		
CITY <b>Jasper</b>	STATE <b>Mo.</b>	ZIP CODE <b>64755</b>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ <input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT <b>9-24-96</b>

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) <b>Wayne + Pauline Evans Trust</b>		
ADDRESS <b>203 S. PARK ST.</b>		
CITY <b>Jasper</b>	STATE <b>Mo.</b>	ZIP CODE <b>64755</b>
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____ <input checked="" type="checkbox"/> LEASE <input type="checkbox"/> VERBAL AGREEMENT		DATE OF AGREEMENT <b>9-24-96</b>

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION

MINE PLAN

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MISSOURI LAND

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

☐ SHORT TERM, FOR ONE PERMIT YEAR

☒ LONG TERM, FOR PERIOD THROUGH DATE: 9-30-2016

RECLAMATION COMMISSION

COMPANY NAME Nelson Stone Co. DBA Nelson Bros. Quarry

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY.

Plant site on date of agreement is row crop land currently growing soybeans. Pit area is: North cropland, approx 5 acres, the remaining pit area is fescue pasture.

OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.

A. TOPSOIL

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12

INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☒ YES OR ☐ NO \* see below

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL

Motor Scraper, Grader, Bulldozer, Loader & Haul Truck. Topsoil to be removed & stored in a berm south of plant site & pit areas. Enough topsoil will be retained to reclaim all the plant area - (10 acres). Remaining pit area (40 acres) to be water reservoir.

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Topsoil will be stored in a berm & seeded with vegetation to prevent ~~erosion~~ erosion.

\* The 40 acre pit will be reclaimed as water reservoir. The 10 acre plant area will be reclaimed as pasture. Enough topsoil will be retained to complete topsoil replacement on this 10 acre area.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

After topsoil Removal, the remaining clay or spoil shall be placed immediately adjacent to the area from which it was removed so that the spoil may be placed back into the open pit. Mining will commence at the SW corner of pit area & proceed north to northern boundary, then from north to south-east of mined channel.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

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**D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

see MAP. Pit area (crosshatched lines) to be 40 acres (1320' x 1320')  
Plant & stockpile area (diagonal lines) to be 10 acres (660' x 660')

YES	NO	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

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**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.**

**A. REVEGETATION** (Attach additional sheets, if needed)

MISSOURI LAND

REVEGETATION MIX #1

PURPOSE OR LAND USE

Pasture

RECLAMATION COMMISSION

B. SEEDING OR PLANTING TIME

First Season

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

LAND will be disc + tilled for adequate seed bed, via FARM implements, then all Lime, fertilizer, & seed will be broadcast by spreader. Truck owned by local Ag Service Center.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	30		
Red Clover	6-10		
ORCHARD GRASS.	8-10		

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING**

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

The reclaimed land (plant area) will be nearly level with no significant slopes.

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MISSOURI LAND  
RECLAMATION COMMISSION

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES**

**GRADING** The pit area (40 Acres) will be water reservoir + will be allowed to fill with water immediately after mining operations cease. The plant area (10 Acres) will be recovered with topsoil, graded, tilled, & seeded as soon as all stockpiles are sold out.

**REPLACEMENT OF TOPSOIL**

As soon as all stockpiles are sold out, 12" of topsoil will be restored

**REVEGETATION**

First season after stockpiles are depleted. Area will be monitored to insure adequate growth. If not, area will be reseeded.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

12

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

10

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

40

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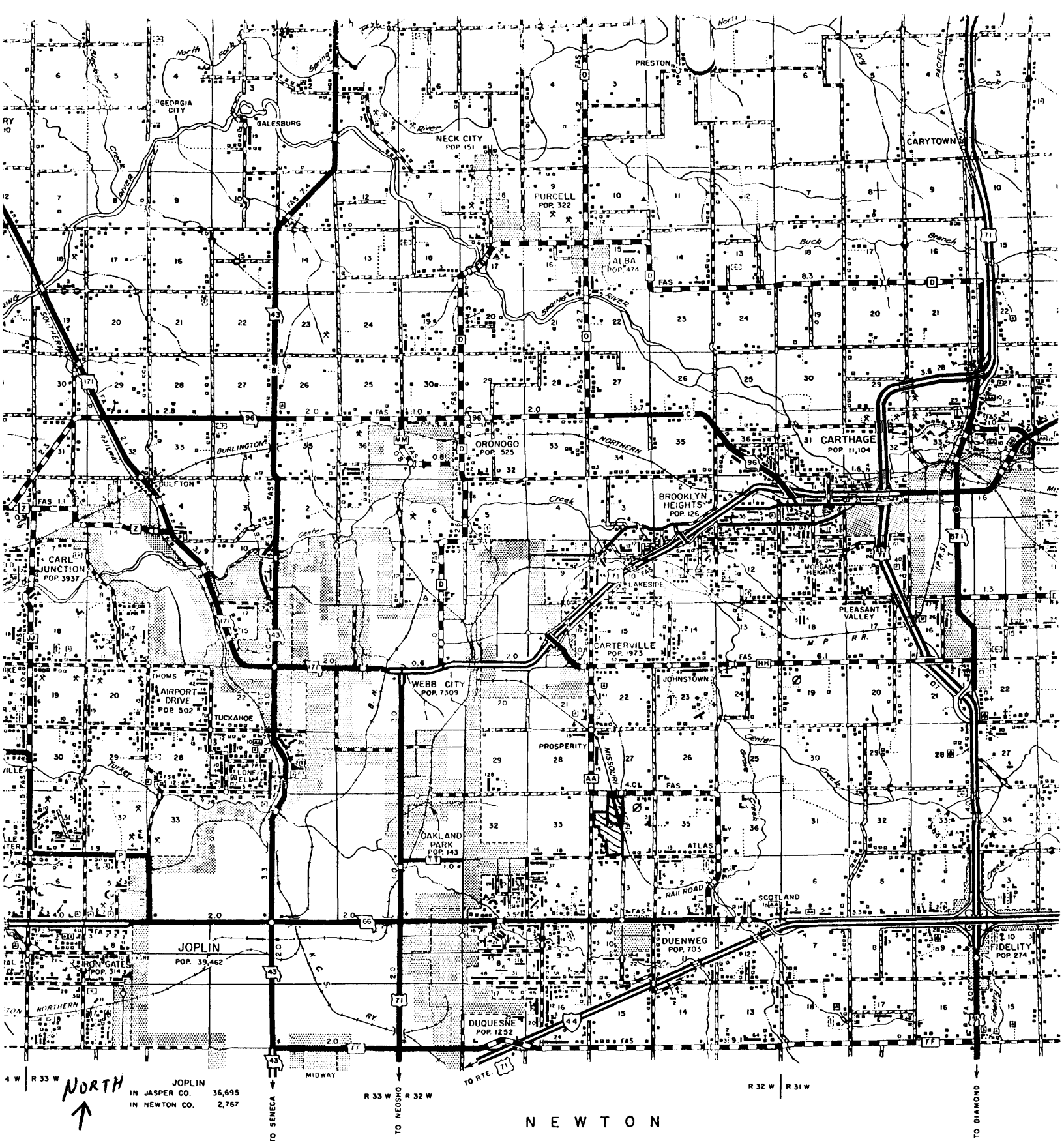
MISSOURI LAND  
RECLAMATION COMMISSION

By my signature, I attest to the following:

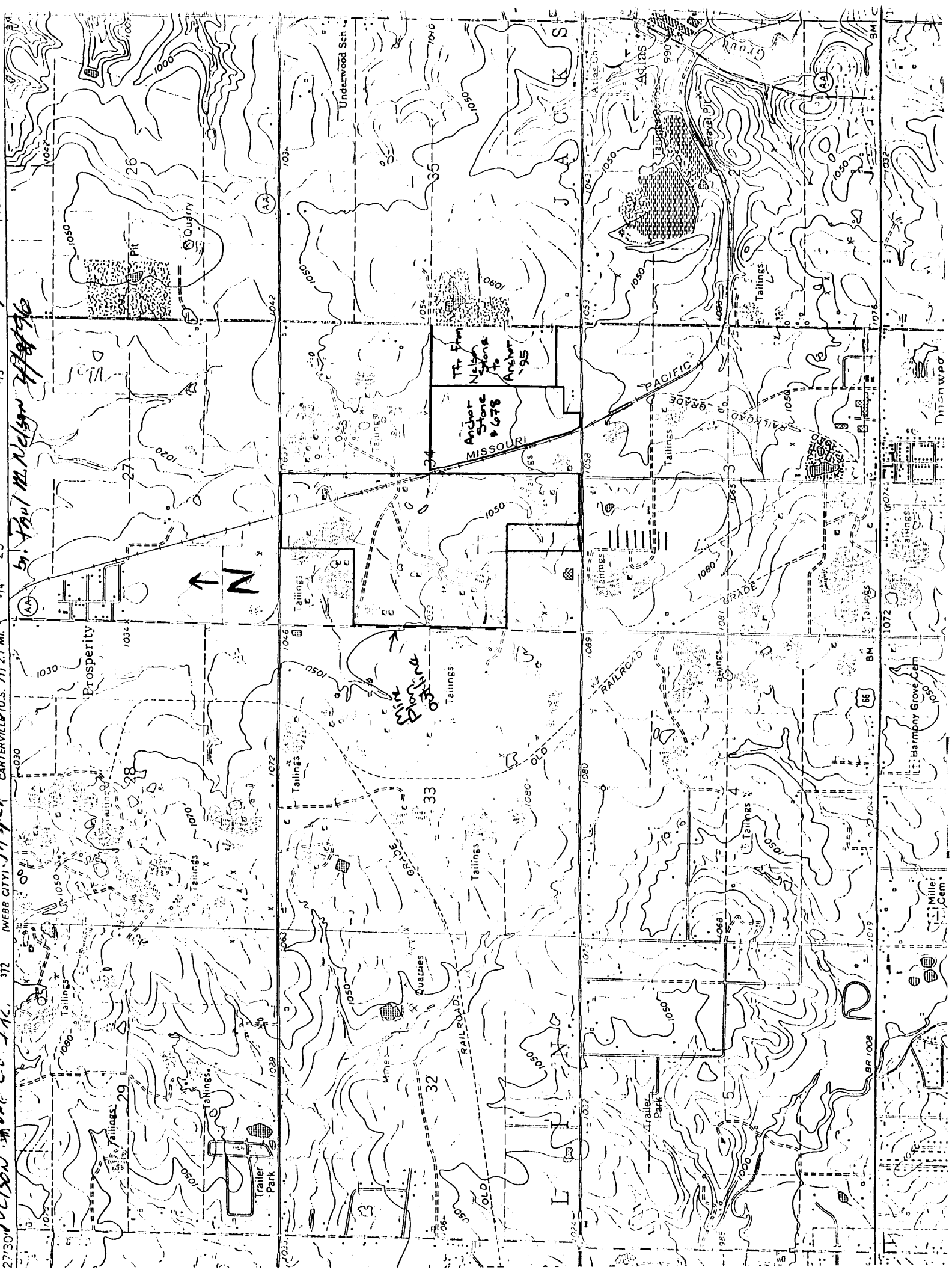
1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Paul M. Nelson</i>		TITLE <i>Sec. / Pres.</i>	DATE <i>10-18-96</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE MISSOURI	COUNTY (OR CITY OF ST. LOUIS) JASPER	
	SUBSCRIBED AND SWORN BEFORE ME, THIS 18TH DAY OF OCTOBER 19 96		USE RUBBER STAMP IN CLEAR AREA BELOW  M. Sue Dean, Notary Public State of Missouri, Jasper County My Commission Expires July 23, 1997
	NOTARY PUBLIC SIGNATURE <i>M. Sue Dean</i>	MY COMMISSION EXPIRES 7/23/97	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) M. SUE DEAN		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <i>Thomas Deluigi</i>		DATE APPROVED <i>10.31-96</i>	PERMIT NUMBER <i>0713</i>





Nelson Stone Co., Inc. Nelson Bros. Quarries  
 Jasper County  
 Section 34 Township 28N Range 32W  
 Joplin Quarry  
 Prepared by. Paul M. Nelson  
 MAR. 20, 1996



NORTH

1046



Tailings



X

103

Tailings

1053

1042

34

WEST

EAST

MISSOURI

1050

Tailings

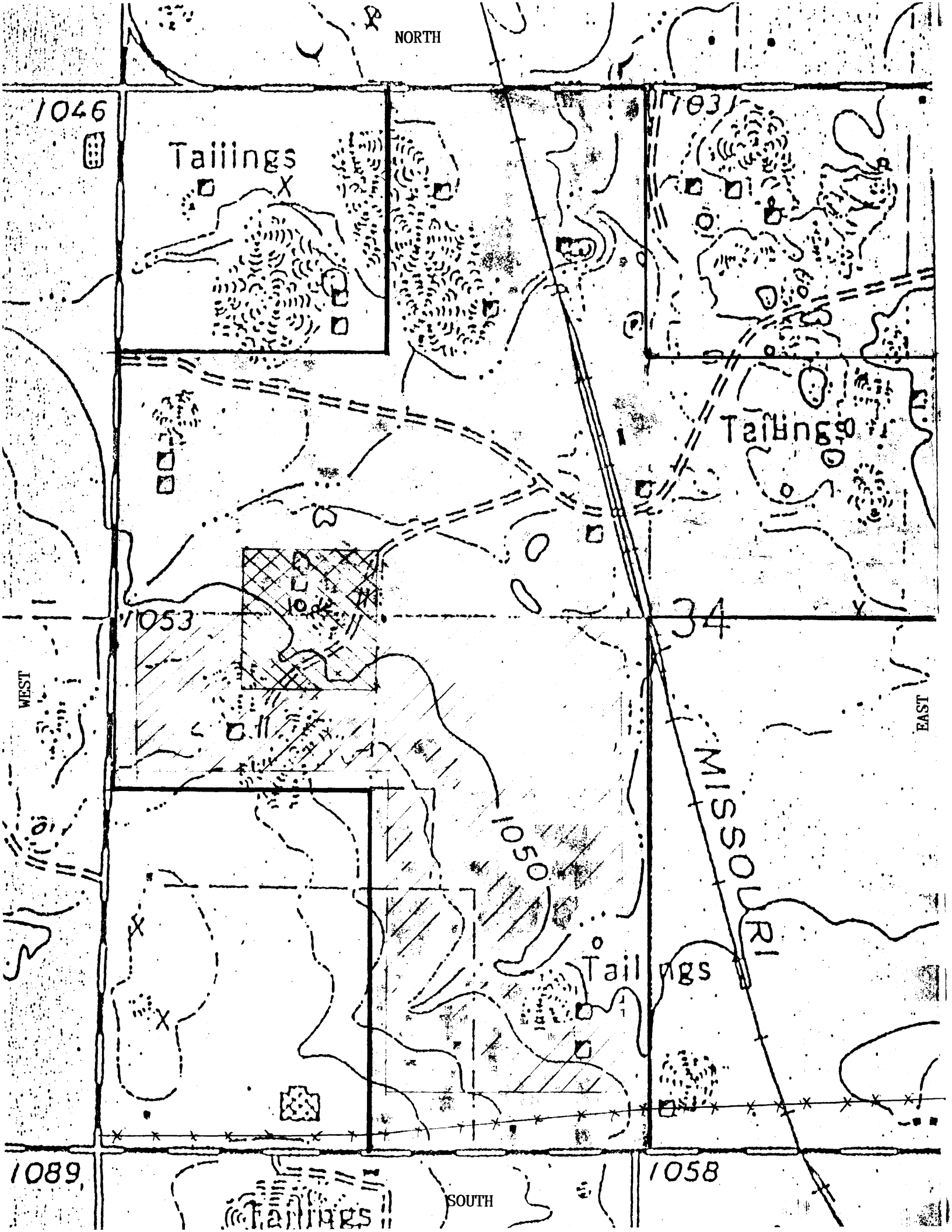
11

1089

1058


SOUTH

Tailings



# MAP LEGEND

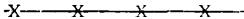
Nelson Stone Co., Inc.  
Jasper County  
Section 34 T 28N Rg 32W  
Joplin Quarry  
Prepared by: Paul M. (Dusty) Nelson  
March 20, 1996

Orange Colored Area 

Area Outlined in Yellow

Diagonal Lines 

Crosshatch Lines 

Electric Power Line 

Scale:

1" = 560'

Land Owned by Robert W. Nelson

Land Covered by Permit 225 acres

Planned Quarry Pit 86.00 acres

Initial area for Plant and start  
of Quarry Pit (10 acres)

South of Planned Pit

NOT TO SCALE

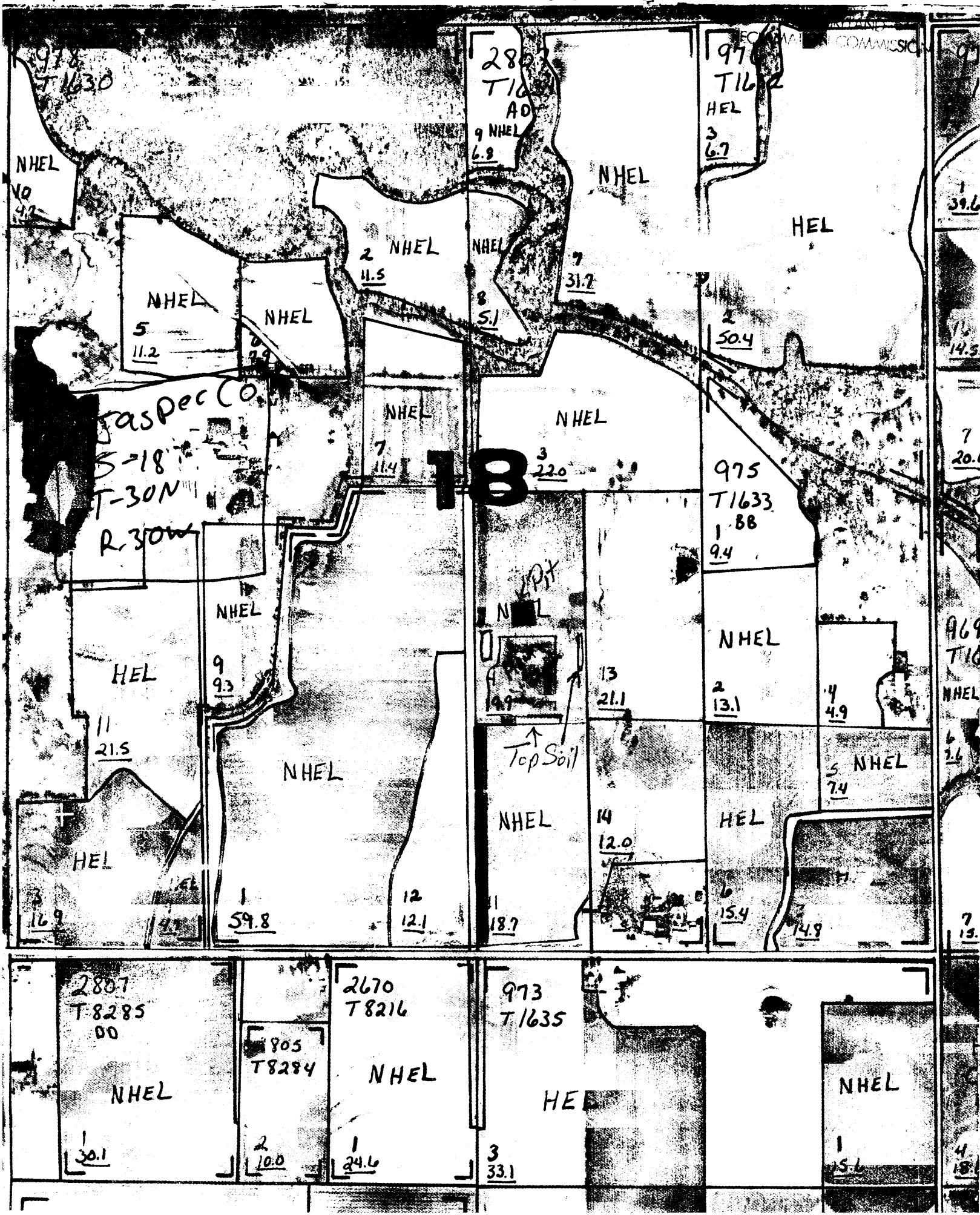
JASPER

MAP:

L1

SECTION:

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MAR 12 1998





MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**SITE INFORMATION FORM**

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FEB 26 1996  
MISSOURI LAND  
RECLAMATION COMMISSION

To be completed for each separate area of disturbance associated with mining operations.

SITE NAME OR NUMBER Nelson Stone Co. Joplin Quarry		PERMIT NUMBER 713
COMPANY NAME Nelson Stone Co., Inc.		
COUNTY Jasper	1/4 SECTION NW & SW 1/4	SECTION 34
TOWNSHIP 28N	RANGE 32W ✓	ACRES 225
RIVER OR STREAM NAME (FOR IN-STREAM ACRES) N/A		
MINERAL COMMODITY Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES) N/A

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) Robert W. Nelson		
ADDRESS Rt 7 Box 418		
CITY Joplin	STATE Missouri	ZIP CODE 64801
SOURCE OF RIGHT TO MINE (CHECK ONE): <input checked="" type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): <u>owning land</u>		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input checked="" type="checkbox"/> VERBAL AGREEMENT

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE) Robert W. Nelson		
ADDRESS Rt. 7 Box 418		
CITY Joplin	STATE Missouri	ZIP CODE 64801
SOURCE OF RIGHT TO MINE (CHECK ONE): <input type="checkbox"/> MINERAL DEED <input type="checkbox"/> WARRANTY DEED <input type="checkbox"/> OTHER (DESCRIBE): _____		DATE OF AGREEMENT   <input type="checkbox"/> LEASE <input checked="" type="checkbox"/> VERBAL AGREEMENT

**NOTE:** Each site must be shown on a map and be included in a public notice and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
LAND RECLAMATION COMMISSION  
**MINE PLAN**

P.O. BOX 176  
JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):

- ☐ SHORT TERM, FOR ONE PERMIT YEAR  
☒ LONG TERM, FOR PERIOD THROUGH DATE: March 31, 2016

DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION AND TOPOGRAPHY. See Detail Map...The area of the proposed plant & stockpiles is primarily grass covered with remnants of natural sand which was stockpiled by the previous landowner. The previous landowner is still removing sand presently and will continue for one or two more years. There are also sparse timber and brush throughout this section of the mine plan. The area identified as the quarry pit (diagonal lines) is primarily fescue grass with timber on the western border of the proposed pit area. The area just north and west of the proposed plant area (crosshatched lines) is also primarily grass, sand and sparse timber.

The area north of the proposed pit area and east of the proposed plant area is not anticipated to be used for stockpile area or quarry pit at this time. The proposed 86.00 acre pit area detailed on the map should be sufficient reserves to last for the duration of this mine plan. However, if the reserves need to be expanded in the future, this mine plan will be amended to include this portion of land.

**OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.**

**A. TOPSOIL**

AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING

12 INCHES

IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?

☐ YES OR ☒ NO

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL Motor Scrapers, Bulldozers, Loaders, & End Dumps will all be utilized in the removal of topsoil. Topsoil will be removed as quarry operations and needs dictate. Topsoil will be placed in stockpiles and seeded with vegetation to prevent erosion.

**DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION**

Topsoil to be stockpiled with Scrapers and or End Dumps and seeded with vegetation to prevent erosion.

**B. SPOIL**

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil from stripping operations will be removed by scraper and or bulldozers and placed immediately adjacent to the limestone deposit it covered. After mining the limestone has adequately progressed so as not to contaminate the limestone or the spoil by mixing them, it will be placed back into the pit.

**C. ACID MATERIALS**

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

none

**PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)**

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Starting 100 feet west of the center of section 34, go 2440 feet south, then 1120 feet west, then 1670 feet north, then 1320 feet west, then 770 feet north, then 2440 feet east back to the starting point. Area covers approximately 86.00 acres.

**YES      NO**

- |                          |                                     |   |
|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Will any excavation start at or within fifty feet (50') of any property line?<br>(NOTE: If the answer is "yes", a safety barrier may be needed.)  |



**RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.****A. REVEGETATION** (Attach additional sheets, if needed)

REVEGETATION MIX #1 8# Red Clover, 7# Perennial Rye, 20# Fescue	PURPOSE OR LAND USE Pasture	B SEEDING OR PLANTING TIME End of Mining 3-31-2016
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**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

After ground is prepared, seed to be broadcast by local Ag Service Spreader Trucks, then harrowed by Tractor & Implements owned by Landowner.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Perennial Rye Grass Red Clover Fescue Grass	7 8 20		

VEGETATION MIX #2	PURPOSE OR LAND USE	B SEEDING OR PLANTING TIME
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**DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING**

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

**B. GRADING****DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES**

Initial reclamation is to be done by scraper and bulldozers, then finished with a Grader so that no slopes exist that have a greater slope than 5 to 1.

**C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES****GRADING**

Grading is to be done after initial reclamation. Grading will be completed within 12 months after expiration or renewal of the permit under which the surface mine disturbance occurred.

**REPLACEMENT OF TOPSOIL**

Replacement of topsoil will be completed within 12 months after expiration of the permit, or, within 12 months of renewal of the permit under which the ground was disturbed by surface mining activities.

**REVEGETATION**

Seeding and planting of revegetation shall be completed within 24 months after the expiration of the permit or initial permit renewal. Survival of vegetation should be obtained by the second growing season.

**AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)**

Estimated 12 inches

**D. USE OF LAND WHEN RECLAIMED**

Estimate acreage of each land use below, after reclamation

**ESTIMATED ACRES:**

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural) Pasture

139

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)

86

By my signature, I attest to the following:

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT <i>Paul M. Nelson</i>		TITLE <i>Sec. - Treas.</i>	DATE <i>4-8-96</i>
NOTARY PUBLIC EMBOSSEER SEAL	STATE <i>MISSOURI</i>	COUNTY (OR CITY OF ST. LOUIS) <i>JASPER</i>	
	SUBSCRIBED AND SWORN BEFORE ME, THIS <i>8<sup>th</sup></i> DAY OF <i>APRIL</i> 19 <i>96</i>		USE RUBBER STAMP IN CLEAR AREA BELOW  M. Sue Dean, Notary Public State of Missouri, Jasper County My Commission Expires July 23, 1997
	NOTARY PUBLIC SIGNATURE <i>M. Sue Dean</i>	MY COMMISSION EXPIRES <i>7-23-97</i>	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) <i>M. SUE DEAN</i>		
APPROVED BY (DIRECTOR'S REPRESENTATIVE) <b>MEC, P.C.</b>		DATE APPROVED <i>4/11/96</i>	PERMIT NUMBER <i>0713</i>



Map Prepared by

Paul M. Nelson  
6-30-01

Detail Map.

RECEIVED

SEP 17 2001

MISSOURI LAND  
RECLAMATION COMMISSION

RECEIVED

AUG 24 2000

MISSOURI LAND  
RECLAMATION COMMISSION

